25X1 25X1 1B 92/63 24 May 1963 Copy 7 of 7 MEMORANDUM TO: Chief, Military-Economic Division, ORR ATTENTION FROM Chief, CIA/PID (NPIC) SUBJECT Shen-Yang Aircraft Engine Plant #410 REFERENCE : Requirement No. RR/91/63 Project No. C 535/63 1. This memorandum is in answer to referenced requirement concerning Shen-Yang Aircraft Engine Plant. 2. This study primarily concerns two areas: one the main plant of Shen-Yang Arsenal 90th and Shen-Yang Aircraft Engine Plant #410. The following paragraphs contain a description of each plant area and a list of annotations for each area. These amotations are keyed to photo enlargements Enclosures 3. Shen-Yang Arsenal 90th Shen-Yang Arsenal is located in the Ta Tung ward of Shen-Yang at coordinates \$1047'27" 1/123029'30" E. The arsenal is served by a rail line and seven rail spurs. The entire arsenal area is enclosed by a masonry wall approximately eight feet high and all entrances appear to be well secured. The total estimated floorspace is 3,110,045 square feet which is contained within assembly buildings, machine shops, workshops, administration buildings, boiler houses, test facilities, warehouses and storage buildings. All buildings in the arsenal were included in the total estimated floorspace but only major buildings have been annotated. photography was reviewed and comparison made with photography. This comparison shows a complete rehabilitation of the entire arsenal. A further comparison was conducted between 1956 photography and This comparison revealed the construction of new buildings and the modification 25 of some older buildings. These changes are indicated by the red stars (Enclosure 1). Additional changes occurred between 25 These changes were the construction of a new building (Annotation #56, Enclosure #1 and Annotation #1 Enclosure #2) and Declass Review by NGA. 1 vuode Recutes iron automati

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!	Company of the control of the contro	
- , i	a the state on the engine test building at	
Annot.	he partial completion of two wings on the engine test building at ation A. The unusual features at this plant are located at Annotation A,	•
Annot	ation B. Annotation #89 (Enclosure #1) and Annotation #1 (Enclosure #2).	
The f	ollowing is a description of each of the aforementioned annotations.	
Annou	ation A; this building has been identified as a test facility for an antified engine. Construction started possibly in early 1961 and the	
build	ling was approximately 90 percent complete on	
	The building is multi-winged with the base wing measuring	
470	x 65'. There are seven projecting wings, two of which are under cruction and measure 85' x 30' and are probably single test bays, one	
measu	res 150' x 25' and is probably a single test bay and four measure	
150'	x 55', three are probably double test bays and the fourth a single	
test	bay with an additional servicing area. The seven wings are served by	
Annot	ricular exhaust towers approximately 65 to 75 feet above ground level.	•
build	lings. The large building was a former thermal electric power plant,	
which	has been converted since to house three engine test cells.	
Ine o	wo smaller buildings are new since 1956 but are prior to	
build	ting. The three buildings are connected by pipeline. Annotation #89;	
the :	function of this building is waknown. It is adjacent to the transformer	
	(Annotation #90) but separated by an additional fence. The building ars to have been modified between	
	The measurements are 125' x 50' and the roof has two	
level	Ls with the south section being approximately 50 to 55 feet tall. This	
	section is rail served. Amnotation #1 (Enclosure #2) This is a new ling and its function is unknown. The foundation was started on	
	and completed on (Annotation #56). The building	
	completed on The building measures	
appr	eximately 150' x 75' and is approximately 60 to 70 feet tall. Annotation (Enclosure 1) shows four unidentified objects mounted on rail flatcars.	
	e objects are approximately all have the same	
#88 (lguration. Photography shows five unidentified objects	
#88 (These confi	otation 12, malosure 12), in the same general area, these are not mounted	
#88 (These confi (Anno	became and only one has the same configuration as the four located at	
#88 (These confi (Anno on fi anno	lateers, and only one has the same configuration as the four located at tation . The object located approximately 200 feet south of the other	
#88 (Anno on fi	lateurs, and only one has the same configuration as the four located at tation for. The object located approximately 200 feet south of the other along the road between rail spurs appears to be mounted on a trailer,	
#88 (These confi (Anno on fi anno four poss	laters, and only one has the same configuration as the four located at tation for. The object located approximately 200 feet south of the other along the road between rail spurs appears to be mounted on a trailer, lbly a lowery type and is connected to an unidentified prime mover. The	
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IB 92/63 Page 3

KEY TO ANNOTATIONS: SHEW-YANG ARGENAL 90TH ENCLOSURE #1

1.	Assembly building	665' x 490'
2.	Assembly building	665' x 275'
3.	Assembly building	360' x 330'
4.	Assembly building	400' x 225'
5.	Assembly building	425' x 250'
6.	Assembly building	330' x 260'
7.	Assembly building	570' x 250'
8.	Assembly building	440' x 130'
	Workshop	345' x 115'
10.	Workshop and storage yard	305' x 115' - 270' x 130'
11.	Possible forge or smelter	240' x 50'
12.	Workshop	320' x 95' - 85' x 80'
13.	Administration building	310' x 60' - 70' x 25' - 70! x 25'
14.	Workshop and machine shop	210' x 175'
15.	Workshop	210' x 75'
16.	Machine shop and Workshop	215' x 135'
17.	Machine shop and Workshop	320' x 135'
18.	Machine shop	320' x 150'
19.	Machine shop	215' x 150'
20.	Machine shop	240' x 135'
21.	Machine chop	175' x 85'
22.	Storage building	240' x 150'
23.	Machine shop	240' x 135'
24.	Machine shop	345' x 135'
25.	Storage building	160' x 90'
	Storage building	110' x 80'
	Machine shop	150' x 120'
	Storage building	140' x 120'
	Storage building	145' x 105'
	U/I building	95' x 90'
31.	U/I building	160' x 65'
_	Workshop	240' x 65'
33.		220' x '75'
	Machine shop	205' x 125'
35.	Workshop	205' x 65'
	Machine shop	220' x 150'
	Possible forge	240' x 85'
38.	Administration building	150' x 35'
39∙.		200' x 85'
40.	Boiler house and coel stockpile	120' x 95'
41.	Machine shop	170' x 50'
42.		160' x 50'
43.		
	Administration and possible labor	atory buildings
45.	Presible laboratory buildings	

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IB 92/63 Page 4 Five unidentified service buildings 47. Administration building 95' x 55' 48. Administration and security building 370' x 40' Motor vehicle storage and repair shed 200' x 70' 50. Fifteen fenced storage buildings 51. Storage building 70' x 15' each 52. Power Plant and coal stockpile 175' x 150' 53• Workshop 135' x 50' 54. 225' x 105' Workshop Workshop 55. 340' x 105' 56. Foundation for new building 57. Storage building 200' x 40' 58. Storage buildings 59. Storage buildings 60. Security buildings and guard quarters 61. Workshop and Machine shop 195' x 130' - 150' x 75' 62. Gantry crease 63. Storage building 135' x 40' 64. Storage buildings 65. Storage building 225! x 40! 66. Underground POL reservoir, pumping and control station Seven storage buildings 67. 68. Three warehouses Unidentified building, within a secured area 69. 70. Two large and two small warehouses 71. Two workshops 72. Maintance shops and storage buildings 73. Warehouse 350' x 80' 74. Storage building 65' x 30' 75. Two large warehouses 76. Five warehouses 77. Six storage sheds and two large warehouses 78. Two warehouses and four storage sheds 79. Two warehouses and one unidentified building 80. Four warehouses 81. Open storage yard and two gantry cranes 82. Gantry crame and possible shipping and receiving building 83. Five varehouses 84. Four warehouses 85. Administration and six unidentified service buildings 86. Three water reservoirs Administration building and storage buildings 88. Four unidentified objects on flatcars Possible test building 89. 125' x 50' 90. Transformer yard

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	Test building Test Area, three buildings	
1.	fact toll Fraction with 190 x () by approximately 60-70	
1 2. 3. 1 4.	Unidentified objects, one the same as shown on Engine test building, two wings partially completed between Construction started possibly in early 1961. Former thermal electric power plant converted to test cell building prior to 1961 and after 1956.	
She	4. Shen-Tang Aircraft Engine Plant: Shen-Yang Aircraft Engine Plant is located in the Ta Tung ward of a Yang adjacent to Shen-Yang Argenel 90th and Shen-Yang Airfield Southeast. coordinates are 41047'22" 1/123 30'25" E. The plant area is enclosed by a party wall approximately	
masc		
maso same has were been 1 ison thre	e photography utilized in the study of Shen-Yang Arsenal. The Engine Plant a total estimated floor space of 955, 475 square feet. All buildings included in the total estimated floor space, only the major buildings have annotated. This plant was rehabilitated between 1945 and 1956. A comparate which are indicated by the construction of	
maso same has were been ison thre buil	photography utilized in the study of Shen-Yang Arsenal. The Engine Plant a total estimated floor space of 955, 475 square feet. All buildings included in the total estimated floor space, only the major buildings have annotated. This plant was rehabilitated between 1945 and 1956. A compar-	
1 maso same same	e photography utilized in the study of Shes Study was conducted from the a total estimated floor space of OSS 1875 - Pure Arsenal. The Engine Plant	

TOP SECRE 25 **IB** 92/63 Page 6 KEY TO ANNOTATIONS: SEEM-YANG AIRCRAFT ENGINE PLANT ENCLOSURE #1 250' x 110' Storage building 360' x 185' Workshop and storage 180' x 70' 3. Storage building 4. 325' x 200' Assembly and machine shop 5. Machine shop and workshop 170' x 145' 6. Foundry 185' x 185' 7. Boiler house 135' x 55' 8. 265' x 65' Administration building 9. Storage building 180) x 45' 10. Assembly building 530' x 220' 11. Assembly and Machine shop 12. Assembly building 580' x 170' 300' x 160' Workshops 13. 170' x 115' 14. Storage buildings 80' x 60' -70' x 55' Assembly building 15. 250' x 170' 16. Storage building 200' x 45' 17. Administration 230' x 55' - 200' x 40' - 100' x 40' -100' x 40' 18. Maintance shops 100' x 30' 19. Storage building 150' x 55' Administration building 20. 75' x 75' 21. Storage building 25 22. Administration buildings 23. Administration buildings 24. Two warehouses 25. Power plant under construction 26. Four warehouses 27. Machine shop 165' x 110' 28. 230' x 100' Workshop 29. Workshop 135' x 135' Storage building 30. 100' x 35 Storage building 85' x 40' 32. Warehouse 150' x 45' Underground POL reservoir, pumping and control station Three large warehouses and two storage sheds 35. Boiler house 130' x 50' D. Test Cell building E. Additional Administration area Shen-Yang Airfield southeast and support area

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KEY TO AL	inotations: shen-y	ANG AIRCRAFT ENGIVE	PLANT ENCLOSUE	- '	
5. Test	cell building - one	e test cell modified	and a possibl	le blast area	
6. Power	r plant - construct: Lete on and	ion began or is nearing completi	on on	ly 50 percent	
from pre	y interrelated in to on of production ac sent photography.	Engine Plant #410 a heir production acti tivities at these tw Additional ophotograp the engine test faci	vities. A mo to plants cann phic coverage lities. The	re complete ot be determined would be needed arsenal may still	· ·
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